

Appl. No.: 10/034,260
Amendment dated February 3, 2006
Reply to Office Action of November 3, 2005

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Currently Amended): A method of allowing a target computer to be remotely controlled through a browser, the method comprising:

accepting a connection from the browser, wherein the browser is executed by a wireless-client device;

downloading to the browser a web page containing remote-control user-interface elements, wherein the remote-control user-interface elements include virtual keyboard keys, wherein a user activating at least one of the virtual keyboard keys causes a message to be sent to the target computer, wherein the message specifies at least one keyboard event to be simulated on the target computer, wherein the at least one keyboard event to be simulated is based upon which of the virtual keyboard keys was activated;

receiving ~~a the message generated in response to a user interacting with at least one of the remote-control user-interface elements, wherein the message that indicates specifies the~~ at least one keyboard event to be simulated on the target computer; and

simulating the at least one keyboard event ~~based on specified by~~ the received message ~~such that the target computer is remotely controlled through the browser without the target computer transmitting to the wireless-client device data that specifies the content of the target computer's GUI display screen.~~

Claim 2 (Original): The method of claim 1, wherein the accepted connection is an HTTP connection from a wireless-access gateway.

Claim 3 (Original): The method of claim 1, wherein the browser is a wireless-access browser.

Claim 4 (Original): The method of claim 3, wherein the wireless-access browser and the target computer communicate through a wireless-access gateway.

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Claim 5 (Cancelled).

Claim 6 (Original): The method of claim 1, wherein the remote-control user-interface elements comprise hypertext markup language buttons.

Claim 7 (Original): The method of claim 1, wherein the remote-control user-interface elements comprise wireless markup language select elements.

Claim 8 (Original): The method of claim 1, wherein the accepting, the downloading, the receiving, and the simulating are each performed by the target computer.

Claim 9 (Original): The method of claim 1, wherein the received message is contained in a query portion of an HTTP request.

Claim 10 (Original): The method of claim 1, wherein simulating the at least one keyboard event comprises sending an operating system key event to an active application on the target computer.

Claim 11 (Original): The method of claim 1, wherein simulating the at least one keyboard event comprises simulating a press-and-hold operation for at least a first key while simulating a press and then a release of at least a second key.

Claim 12 (Original): The method of claim 1, wherein the received message is part of an HTTP POST.

Claim 13 (Currently Amended): A method of using a wireless-access browser to remotely control a target computer, the method comprising:

connecting to a wireless-access gateway to establish a wireless-access-browser connection to a keyboard event server running on the target computer;

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using the wireless-access browser to download from the keyboard event server a web page containing remote-control user-interface elements, wherein the wireless-access browser is executed by a wireless-client device and wherein the remote-control user-interface elements include wireless markup language select elements, wherein a user activating at least one of the wireless markup language select elements causes a message to be sent to the keyboard event server, wherein the message specifies at least one keyboard event to be simulated by the keyboard event server on the target computer, wherein the at least one keyboard event to be simulated is based upon which of the at least one wireless markup language select elements was activated; and

~~sending a message to the keyboard event server, wherein the message is generated in response to a user interacting with at least one of the remote-control user interface elements and wherein the message that specifies the indicates at least one keyboard event to be simulated by the keyboard event server on the target computer such that the target computer is remotely controlled through the wireless-access browser without the target computer transmitting to the wireless-client device data that specifies the content of the target computer's GUI display screen.~~

Claim 14 (Currently Amended): The method of claim 13, wherein the remote-control user-interface elements comprise ~~wireless markup language select elements~~ virtual keyboard keys.

Claim 15 (Original): The method of claim 13, wherein the sent message is contained in a query portion of an HTTP request.

Claim 16 (Original): The method of claim 15, wherein the sent message is part of an HTTP POST.

Claim 17 (Currently Amended): A method of allowing a wireless-access browser to remotely control a target computer, the method comprising:

establishing, through a wireless-access gateway, a wireless-access-browser connection to a keyboard event server running on the target computer;

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downloading through the wireless-access gateway from the keyboard event server to the wireless-access browser a web page containing remote-control user-interface elements, wherein the wireless-access browser is executed by a wireless-client device and wherein the remote-control user-interface elements include wireless markup language select elements, wherein a user activating at least one of the wireless markup language select elements causes a wireless protocol-encoded (WP-encoded) message to be sent to the wireless-access gateway, wherein the WP-encoded message specifies at least one keyboard event to be simulated by the keyboard event server on the target computer, wherein the at least one keyboard event to be simulated is based upon which of the at least one wireless markup language select elements was activated;

~~converting a the wireless protocol-encoded (WP-encoded) message received from the wireless-access browser at the wireless-access gateway into an HTTP message, wherein the WP-encoded message is generated in response to a user interacting with at least one of the remote-control user interface elements and wherein the WP encoded message indicates at least one keyboard event to be simulated by the keyboard event server on the target computer; and~~

~~transmitting the HTTP message from the wireless-access gateway to the keyboard event server such that the target computer is remotely controlled through the wireless-access browser without the target computer transmitting to the wireless-client device data that specifies the content of the target computer's GUI display screen.~~

Claim 18 (Original): The method of claim 17, further comprising:
receiving an HTTP response from the keyboard event server at the wireless-access gateway;
converting the HTTP response to a WP-encoded response; and
transmitting the WP-encoded response from the wireless-access gateway to the wireless-access browser.

Claim 19 (Original): A computer-readable medium having computer-executable instructions for causing a wireless-access gateway to perform the steps recited in claim 18.

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Claim 20 (Original): A computer-readable medium having computer-executable instructions for causing a target computer to perform the steps recited in claim 4.

Claim 21 (Original): A computer-readable medium having computer-executable instructions for causing a wireless-access browser to perform the steps recited in claim 16.

Claim 22 (Currently Amended): A mobile terminal that allows an end user to remotely control a target computer, the mobile terminal comprising:

a wireless-access browser that downloads from a keyboard event server that is executing on the target computer, remote-control user-interface elements that include wireless markup language select elements that, upon user activation, cause the mobile terminal to send to the keyboard event server a message that specifies at least one keyboard event to be simulated by the keyboard event server on the target computer, wherein the at least one keyboard event to be simulated is based upon which of the at least one wireless markup language select elements was activated; and

wherein, the mobile terminal sends a message to a the keyboard event server executing on the target computer the message that specifies at least one keyboard event to be simulated by the keyboard event server on the target computer, wherein

the message is generated in response to the end user interacting with at least one of the remote-control user-interface elements, and

the message indicates at least one keyboard event to be simulated by the keyboard event server on the target computer such that the target computer is remotely controlled through the wireless-access browser without the target computer transmitting to the mobile terminal data that specifies the content of the target computer's GUI display screen.

Claim 23 (Original): The mobile terminal of claim 22, wherein the wireless-access browser and the target computer communicate through a wireless-access gateway.

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Claim 24 (Currently Amended): The mobile terminal of claim 22, wherein the remote-control user-interface elements comprise ~~wireless markup language select elements~~ virtual keyboard keys.

Claim 25 (Original): The mobile terminal of claim 22, wherein the sent message is wireless-protocol encoded.

Claim 26 (Original): The mobile terminal of claim 22, wherein the at least one keyboard event to be simulated comprises simulating a press-and-hold operation for at least a first key while simulating a press and then a release of at least a second key.

Claim 27 (Currently Amended): A remote-control system comprising:
a wireless-access gateway;
a target computer that is running a keyboard event server and that is coupled to the wireless-access gateway;
a mobile terminal running a wireless-access browser that receives remote-control user-interface elements that include wireless markup language select elements that, upon user activation, cause the mobile terminal to send to the wireless-access gateway a message that specifies at least one keyboard event to be simulated by the keyboard event server on the target computer, wherein the at least one keyboard event to be simulated is based upon which of the at least one wireless markup language select elements was activated; and
a wireless-access gateway; and
a target computer coupled to the wireless-access gateway,
wherein the ~~target computer is running a keyboard event server that receives a message~~ through the wireless-access gateway from the wireless-access browser the message that specifies the at least one keyboard event to be simulated; and
~~the message is generated in response to a mobile terminal user interacting with at least one of the remote-control user-interface elements, and~~
the keyboard event server simulates on the target computer the at least one keyboard event on the target computer based on specified by the received message received through the

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~~wireless-access gateway, such that the target computer is remotely controlled through the wireless-access browser without the target computer transmitting to the mobile terminal data that specifies the content of the target computer's GUI display screen.~~

Claim 28 (Currently Amended): The remote-control system of claim 27, wherein the message received ~~message through the wireless-access gateway~~ comprises at least one mnemonic corresponding to the at least one simulated keyboard event.